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Abstract

Nuclear Plants for Power and Saline Water Convertion

Tunisian Atomic Energy Commission

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Although developing countries economy is based on agriculture, big efforts are done for establishing industries. So water energy are in most cases the basic requirements of economic development.

Many problems arise by shortage of water in areas of some countries : migration of population from one region to another, economic unbalance due to industry set up in prefered areas....

Even in industrial areas and great centers of population, water requirements of industrial and domestic purposes are increasing and in several cases water supply of these regions by pipes is not the best solution ; then, water conversion plants are to be considered among alternatives water supply.

Among energy sources required for water convertion plants, nuclear energy may be considered. Nuclear source energy may offer advantages especially for dualpurpose plant.

Many problems of course have to be solved but reactors and saline water conversion plants technology at present time has no great difficulties to be solved.

Generally, it is possible to foresse :

- types of reactors to be adapted for dual-purpose.
- processes for desalination which have the great experience.
- the problems of connexion of energy source and desalination plant.

Some situations and especially that of Tunisia will be examined.

Translation provided by courtesy of the submitting Government